

CLAIMS

1. An arc welding apparatus comprising a welding torch, a wire feeding device for feeding a wire in contact with an internal surface of a chip of the welding torch, and a welding source for supplying a power to the chip and a base metal, wherein there are provided a welding current detector for detecting a welding current value and a welding voltage detector for detecting a welding voltage value, and a wire feeding speed command value, the welding current value and the welding voltage value are displayed independently and simultaneously.

2. An arc welding apparatus comprising a welding torch, a wire feeding device for feeding a wire in contact with an internal surface of a chip of the welding torch, and a welding source for supplying a power to the chip and a base metal, wherein there are provided a welding current detector for detecting a welding current value, a welding voltage detector for detecting a welding voltage value, a wire feeding speed detector for detecting a wire feeding speed, current display selecting means for carrying out a selection to display one of the welding current value detected by the welding current detector and a welding current command value, current display means for displaying data selected by the current display selecting means, voltage display selecting means for carrying out a selection to display one of the welding voltage value detected by the welding voltage detector and a welding voltage command value, voltage display means for displaying data selected by the voltage display selecting means, feeding speed display selecting means for carrying out a selection to display one of

the wire feeding speed detected by the wire feeding speed detector, a wire feeding speed command value and a wire feeding torque, and feeding speed display means for displaying data selected by the feeding speed display selecting means, further
5 wherein all of the current display means, the voltage display means and the feeding speed display means are independently disposed in the welding source.

3. An arc welding apparatus comprising a robot having a welding torch provided on a tip of a manipulator and serving
10 to weld a weld line which is taught, a robot control device for controlling the robot, a robot teaching device connected to the robot control device, a wire feeding device to be driven by means of a motor, and a welding source for supplying a power to a chip and a base metal, wherein one of a welding current command value
15 and an actual welding current value is selected as welding current value data, one of a welding voltage command value and an actual welding voltage value is selected as welding voltage value data, one of a wire feeding speed command value, an actual wire feeding speed and a torque value of the motor is selected
20 as wire feeding speed data, and the welding current value data, the welding voltage value data and the wire feeding speed data are simultaneously displayed on the robot teaching device.